

PATENT
HES 2000-IP-002115U1P1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

ASSISTANT COMMISSIONER FOR PATENTS
Washington, D.C. 20231

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

U. S. PATENTS

U.S. Patent No. 3,694,152 issued September 26, 1972 to Riccardo Sersale et al.

U.S. Patent No. 4,435,216 issued March 6, 1984 to Manfred Diehl et al.

U.S. Patent No. 4,482,379 issued November 13, 1984 to Benton L. Dibrell et al.

U.S. Patent No. 4,888,120 issued December 19, 1989 to Heinz Mueller et al.

U.S. Patent No. 5,383,967 issued January 24, 1995 to Raymond S. Chase.

U.S. Patent No. 5,435,846 issued July 25, 1995 to Hidenobu Tatematsu et al.

U.S. Patent No. 5 494 513 issued February 27, 1996 to Yan Fu et al.

U.S. Patent No. 5,529,624 issued June 25, 1996 to Norbert Riegler.

U.S. Patent No. 6,145,591 issued November 14, 2000 to Virgilio G. Boncan et al.

U.S. Patent No. 6,170,575 B1 issued January 9, 2001 to Baireddy R. Reddy et al.

U.S. Patent No. 6,171,386 B1 issued January 9, 2001 to Freddie L. Sabins.

U.S. Patent No. 6,245,142 B1 issued June 12, 2001 to Baireddy R. Reddy et al.

U.S. Patent No. 6,379,456 B1 issued April 30, 2002 to James F. Heathman et al.

U.S. Patent No. 6,494,951 B1 issued December 17, 2002 to Baireddy R. Reddy et al.

U.S. Patent No. 4,141,843 issued February 27, 1979 to Jimmie L. Watson

U.S. Patent No. 4,217,229 issued August 12, 1980 to Jimmie L. Watson.

U.S. Patent No. 4,444,668 issued April 24, 1984 to Michael L. Walker et al.

U.S. Patent No. 4,530,402 issued July 23, 1985 to Robert C. Smith et al.

U.S. Patent No. 4,536,297 issued August 20, 1985 to Royal E. Loftin et al.

U.S. Patent No. 4,717,488 issued January 5, 1988 to James M. Seheult et al.

U.S. Patent No. 5,716,910 issued February 10, 1998 to Patty L. Totten et al.

U. S. Patent No. 5,759,964 issued June 2, 1998 to Chris Shuchart et al.

U. S. Patent No. 5,789,352 issued August 4, 1998 to Robert B. Carpenter et al.

U.S. Patent No. 5,851,960 issued December 22, 1998 to Patty L. Totten et al.

U.S. Patent No. 5,866,517 issued February 2, 1999 to Robert B. Carpenter et al.

U.S. Patent No. 5,990,052 issued November 23, 1999 to Phillip C. Harris.

U.S. Patent No. 6,063,738 issued May 16, 2000 to Jiten Chatterji et al.

U.S. Patent No. 6,070,664 issued June 6, 2000 to Eldon D. Dalrymple et al.

U.S. Patent No. 6,213,213 B1 issued April 10, 2001 to Diederik W. van Batenburg et al.

U.S. Patent No. 6,283,213 B1 issued September 4, 2001 to Albert E. Chan.

U.S. Patent No. 6,488,091 B1 issued December 3, 2002 to Jim D. Weaver et al.

U. S. Patent No. 6,555,505 B1 issued April 29, 2003 to Karen L. King et al.

U.S. Patent No. 6,566,310 B2 issued May 20, 2003 to Albert E. Chan.

U.S. Patent No. 6,478,869 B2 issued November 12, 2002 to Baireddy R. Reddy et al.

U.S. PATENT APPLICATION PUBLICATIONS

U.S. Patent Application Publication No. US 2001/0014651 A1 published August 16, 2001 to Baireddy R. Reddy et al.

FOREIGN PATENTS

London Patent No. 1,469,954 published April 14, 1977.

OTHER MATERIAL

SPE 20624 entitled "Acidization of Analcime-Cementing Sandstone, Gulf of Mexico" by D.R. Underdown et al., dated 1990.

SPE 39595 entitled "Designing a Remedial Acid Treatment for Gulf of Mexico Deepwater Turbidite Sands Containing Zeolite Cement" by B.A. Rogers et al., dated 1998.

Paper entitled "Tectonics, fluid migration, and fluid pressure in a deformed forearc basin, Cook Inlet, Alaska", by R.L. Bruhn et al., pages 550-563, dated 2000.

Paper entitled "Hydraulic Conductivity Measurements On Discrete Samples Collected From Leg 141, Site 863", by S.D. Lewis et al., pages 401-405, dated 1995.

Paper entitled "Alteration of Clay Minerals And Zeolites In Hydrothermal Brines" by Sridhar Komarneni et al., pages 383-391, dated 1983.

Paper entitled "A Non-Conventional Way of Developing Cement Slurry for Geothermal Wells", by V. Barlet-Gouedard et al., pages 85-91, dated 2001.

Paper entitled “Portland –Zeolite-Cement For Minimizing Alkali-Aggregate Expansion”, by R. Sersale, Vol. 17, pages 404-410, dated 1987.

Paper entitled “Zeolite Crystallization in Portland Cement Concrete” by S.A. Marfill et al., pages 1283-1288, dated 1993.

Paper entitled “A Study on the hydration rate of natural zeolite blended cement pastes”, by C.S. Poon et al., pages 427-432, dated 1999.

Paper entitled “Zeolite ceramsite cellular concrete”, by N.-Q. Feng et al., pages 117-122, dated 2000.

Paper entitled “Immobilization of caesium-loaded ion exchange resins in zeolite-cement blends”, by Sandor Bagosi et al., pages 479-485, dated 1999.

Paper entitled “Effect of Bentonite and Zeolite on Durability of Cement Suspension under Sulfate Attack”, by Ivan Janotka et al., pages 710-715, dated 1998.

Paper entitled “Reuse of waste catalysts from petrochemical industries for cement substitution”, by Nan Su et al., pages 1773-1873, dated 2000.

Paper entitled “Extreme vertices design of concrete with combined mineral admixtures”, by Jian-Tong Ding et al., pages 957-960, dated 1999.

Paper entitled “The Properties of Mortar Using Blends With Portland Cement Clinker, Zeolite Tuff and Gypsum”, by Ivan Janotka, pages 105-110, dated 1995.

Paper entitled “Study on the suppression effect of natural zeolite on expansion of concrete due to alkali-aggregate reaction”, by Feng Naiqian, pages 17-24, dated 1998.

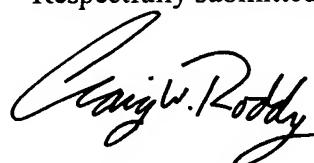
Paper entitled “Comparative study of the initial surface absorption and chloride diffusion

of high performance zeolite, silica fume and PFA concretes", by Sammy Y.N. Chan et al, pages 293-300, dated 1999.

Paper entitled "A study on the hydration rate of natural zeolite blended cement pastes", by C.S. Poon et al, pages 427-432, dated 1999.

Copies of the aforementioned references and Form PTO-1449 are submitted herewith.

Respectfully submitted,



Craig W. Roddy
Registration No. 36,256
Halliburton Energy Services
P. O. Box 1431
Duncan, OK 73536-0440
580-251-3012

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO. 2001-IP-002115U1P1	SERIAL NO. unknown
APPLICANT Karen Luke et al.			
FILING DATE concurrently herewith		GROUP unknown	

U. S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	3,694,152	09/26/72	Sersale et al.	423	329	
	AB	4,435,216	03/06/84	Diehl et al.	106	97	
	AC	4,482,379	11/13/84	Dibrell et al.	106	76	
	AD	4,888,120	12/19/89	Mueller et al.	252	8.551	
	AE	5,383,967	01/24/95	Chase	106	737	
	AF	5,435,846	07/25/95	Tatematsu et al.	106	813	
	AG	5,494,513	02/27/96	Fu et al.	106	672	
	AH	5,529,624	06/25/96	Riegler	106	675	
	AI	6,145,591	11/14/00	Boncan et al.	166	291	
	AJ	6,170,575 B1	01/09/01	Reddy et al.	166	293	
	AK	6,171,386 B1	01/09/01	Sabins	106	724	
	AL	6,245,142 B1	06/12/01	Reddy et al.	106	724	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation
							Yes
	AM	1,469,954 ✓	04/14/77	London	C08L	95/00	X
	AN						
	AO						
	AP						
	AQ						

OTHER ART, (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	V	SPE 20624 entitled "Acidization of Analcime-Cementing Sandstone, Gulf
			Of Mexico", by D.R. Underdown et al., dated 1990.
	AS	SPE 39595 entitled "Designing a Remedial Acid Treatment for Gulf of	
		✓ Mexico Deepwater Turbidite Sands Containing Zeolite Cement", by	
	AT	B.A. Rogers et al., dated 1998.	
		✓ Paper entitled "Tectonics, fluid migration, and fluid pressure in a	
		Deformed forearc basin, Cook Inlet, Alaska", by R.L. Bruhn et al.,	
		Pages 550-563, dated 2000.	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 2001-IP-002115U1P1	SERIAL NO. unknown
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Karen Luke et al.	
(Use several sheets if necessary)		FILING DATE concurrently herewith	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	6,379,456 B1	04/30/02	Heathman et al.	106	724	
	AB	6,494,951 B1	12/17/02	Reddy et al.	106	705	
	AC	4,141,843	02/27/79	Watson	252	8.55 R	
	AD	4,217,229	08/12/80	Watson	252	8.55 R	
	AE	4,444,668	04/24/84	Walker et al.	252	8.55 R	
	AF	4,530,402	07/23/85	Smith et al.	166	291	
	AG	4,536,297	08/20/85	Loftin et al.	252	8.5 C	
	AH	4,717,488	01/05/88	Seheult et al.	252	8.551	
	AI	5,716,910	02/10/98	Totten et al.	507	102	
	AJ	5,759,964	06/02/87	Shuchart et al.	507	209	
	AK	5,789,352	08/04/98	Carpenter et al.	507	209	
	AL						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
	AM							
	AN							
	AO							
	AP							
	AQ							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Paper entitled "Hydraulic Conductivity Measurement On Discrete Samples Collected From Leg 141, Site 863", by Kevin Brown, pages 401-405, dated 1995.						
	AS	Paper entitled "Alteration of Clay Minerals And Zeolites In Hydrothermal Brines", by Sridhar Komarneni et al., pages 383-391, dated 1983.						
	AT	Paper entitled "A Non-Conventional Way of Developing Cement Slurry For Geothermal Wells", by V. Barlet-Gouedard et al., pages 85-91, dated 2001.						

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 2001-IP-002115U1P1	SERIAL NO. unknown
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Karen Luke et al.	
(Use several sheets if necessary)		FILING DATE concurrently herewith	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	5,851,960	12/22/98	Totten et al.	507	118	
	AB	5,866,517	02/02/99	Carpenter et al.	507	226	
	AC	5,990,052	11/23/99	Harris	507	214	
	AD	6,063,738	05/16/00	Chatterji et al.	507	269	
	AE	6,070,664	06/06/00	Dalrymple et al.	166	281	
	AF	6,213,213 B1	04/10/01	van Batenburg	166	300	
	AG	6,283,213 B1	09/04/01	Chan	166	291	
	AH	6,488,091 B1	12/03/02	Weaver et al.	166	300	
	AI	6,555,505 B1	04/29/03	King et al.	507	202	
	AJ	6,566,310 B2	05/20/03	Chan	507	211	
	AK	6,478,869B2	11/12/00	Reddy et al.	106	724	
	AL	US 2001/0014651 A1	08/16/01	Reddy et al.	502	408	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes	No
	AM							
	AN							
	AO							
	AP							
	AQ							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	.	Paper entitled "Portland-Zeolite-Cement For Minimizing Alkali-
		✓ Aggregate Expansion", by R. Sersale, pages 404-410, dated 1987.
AS	.	Paper entitled "Zeolite Crystallization In Portland Cement Concrete Due
		✓ To Alkali-Aggregate Reaction", by S.A. Marfil et al., paged 1283-1288, dated 1993.
AT		Paper entitled "A study on the hydration rate of natural zeoite blended
		Cement pastes", by C.S. Poon et al., pages 427-432, dated 1999.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 2001-IP-002115U1P1	SERIAL NO. unknown
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Karen Luke et al.	
(Use several sheets if necessary)		FILING DATE unknown	GROUP unknown

U. S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation
							Yes
	AM						
	AN						
	AO						
	AP						
	AQ						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Paper entitled "Zeolite ceramsite cellular concrete", by N-Q. Feng
		Pages 117-122, dated 2000.
	AS	Paper entitled "Immobilization of caesium-loaded ion exchange resins in
		Zeolite-cement blends", by Sandor Bagosi et al., pages 479-485, dated 1999.
	AT	Paper entitled "Effect of Bentonite and Zeolite on Durability of Cement
		Suspension under Sulfate Attack", by Ivan Janotka, pages 710-715, dated 1988.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 2001-IP-002115U1P1	SERIAL NO. unknown
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Karen Luke et al.	
(Use several sheets if necessary)		FILING DATE concurrently herewith	GROUP unknown

U. S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation
							Yes
	AM						
	AN						
	AO						
	AP						
	AQ						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Paper entitled "Reuse of waste catalysts from petrochemical industries
		For cement substitution", by Nan Su et al., pages 1773-1783, dated 2000.
	AS	Paper entitled "Extreme vertices design of concrete with combined
		Mineral admixtures", by Jian-Tong Ding et al., pages 957-960, dated 1999.
	AT	Paper entitled "The Properties of Mortar Using Blends With Portland
		Cement Clinker, Zeolite Tuff and Gypsum", by Ivan Janotka, et al., pages 105-110, dated 1995.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 2001-IP-002115U1P	SERIAL NO. unknown
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Karen Luke et al.	
(Use several sheets if necessary)		FILING DATE concurrently herewith	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation
							Yes
	AM						
	AN						
	AO						
	AP						
	AQ						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Paper entitled "Study on the suppression effect of natural zeolite on
		Expansion of concrete due to alkali-aggregate reaction", by Feng Naiqian et al., pages 17-24, dated 1998.
	AS	Paper entitled "Comparative study of the initial surface absorption and
		Chloride diffusion of high performance zeolite, silica fume and PFA Concrete", by Sammy Y.N. Chan et al., pages 293-300, dated 1999.
	AT	Paper entitled "A study on the hydration rate of natural zeolite
		Blended cement pastes", by C.S. Poon et al., pages 427-432, dated 1999.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.